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EXAMINER

HOLLAR, ANDREA B

ART UNIT	PAPER NUMBER
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2142

DATE MAILED: 11/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/981,317

Applicant(s)

WEN ET AL.

Examiner

Andrea Hollar

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-43 is/are rejected.
- 7) ☒ Claim(s) 7, 9, 13, 16-18, 24 and 37-40 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 October 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Oath/Declaration

It is recognized that the application and papers have been reviewed and found in compliance with 37 CFR 1.47(a).

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 160A, 160B, 160C, 160D, 160E, 160F, and 160N. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

Claim Objections

Claim 7 is objected to because of the following informalities: the phrase "to be" is assumed to be a typographical error and should be deleted. Appropriate correction is required.

Claim 9 is objected to because of the following informalities: the word "be" should be added between the words "to" and "sent". The omission is assumed to be a typographical error. Appropriate correction is required.

Claims 13, 24, 37, 38, 39, and 40 are objected to because of the following informalities: the phrase "the transfer of a communication" lacks antecedent basis. Appropriate correction is required.

Claims 16, 17, and 18 are objected to because of the following informalities: Claims 16, 17, and 18 are duplicate claims. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 13 recites the limitation "said first device" in lines 2 and 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 16 recites the limitation "said first communication session information" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 recites the limitation "said first communication session information" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim 18 recites the limitation "said first communication session information" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 22 recites the limitation "said first communication" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 30 recites the limitation "said second communication session" in lines 4-5. There is insufficient antecedent basis for this limitation in the claim.

Claim 33 recites the limitation "said second transfer communication session" in line 17. There is insufficient antecedent basis for this limitation in the claim.

Claim 38 recites the limitation "said destination device" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 39 recites the limitation "said destination device" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claims 29, 31, 33-35, and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The use of conditional statements using the word "if" renders the claims unclear. It is unknown whether applicant intends to claim the material in the conditional statements. For the purposes of examination, all conditional statements are assumed to evaluate as false.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-24 and 26-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Kannan.

With respect to claim 1, Kannan discloses a method of facilitating the transfer of a communication when a first communication session has been established (par. 92, lines 1-2; par. 93, lines 1-2) between a first device (fig. 5A, item 500) and a second device (fig. 5A, item 520), said method comprising the steps of:

causing a list of destinations for a second communication session to be presented at said first device (fig. 6, item 614);

receiving a selection of a selected destination from said list of destinations for said second communication session at said first device (par. 96, lines 1-3);

causing a request to transfer said second device to said second communication session to be sent to said selected destination (par. 93, lines 4-6); and

causing second communication session information to be sent to said second device (par. 99, lines 1-5).

With respect to claim 2, Kannan discloses the method in accordance with claim 1 and, prior to said step of causing a list of destinations to be sent, further comprising the step of receiving a request to transfer said second device to a second communication session (par. 88, lines 4-5).

With respect to claim 3, Kannan discloses the method in accordance with claim 1

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and, after said step of causing said request for transfer to be sent to said selected destination, further comprising the step of receiving said second communication session information from said selected destination (fig. 8B, item 884).

With respect to claim 4, Kannan discloses the method in accordance with claim 1 and, after said step of causing said request for transfer to be sent to said selected destination, further comprising the step of receiving an identification code for said second communication session from said selected destination (par. 126, lines 4-6).

With respect to claim 5, Kannan discloses the method in accordance with claim 1, wherein said step of causing said second communication session information to be sent to said second device comprises causing a destination address for said second communication session to be sent to said second device (par. 136, lines 8-9).

With respect to claim 6, Kannan discloses the method in accordance with claim 1 and, after said step of causing said request for transfer to be sent, further comprising the step of receiving an identification code for said second communication session from said selected destination (par. 126, lines 4-6), and wherein said step of causing said second communication session information to be sent to said second device comprises causing a destination address and said identification code to be sent to said second device (par. 136, lines 8-9; par. 126, lines 4-6).

With respect to claim 7, Kannan discloses the method in accordance with claim 1, wherein said step of causing a request to transfer to said selected destination comprises causing said second session communication information (par. 99, lines 1-5) and a notice of transfer to be sent to said selected destination (par. 193, lines 6-7).

With respect to claim 8, Kannan discloses the method in accordance with claim 1, and further comprising the step of causing said second session communication information (par. 99, lines 1-5) and a notice of transfer to be sent to said selected destination (par. 193, lines 6-7), and wherein said step of causing said second communication session information to be sent to said second device comprises causing a destination address for said second communication session to be sent to said second device (par. 136, lines 8-9).

With respect to claim 9, Kannan discloses the method in accordance with claim 1, and further comprising the step of causing a request to create said second communication session to be sent to said selected destination (fig. 8B, item 881).

With respect to claim 10, Kannan discloses the method in accordance with claim 1, and further comprising the steps of causing a request to create said second communication session to be sent to said selected destination (fig. 8B, item 881), and causing termination of said first communication session (par. 93, lines 8-9).

With respect to claim 11, Kannan discloses the method in accordance with claim 1, and further comprising causing said request to transfer to be sent to said selected destination (par. 93, lines 4-6), receiving permission to transfer said second device to said selected destination (par. 173, line 1), receiving a destination address (par. 96, lines 1-3) and a notice to transfer from said first device (par. 198, line 5), and sending at least said destination address as said second session communication information to said second device (par. 99, lines 1-5).

With respect to claim 12, Kannan discloses the method in accordance with claim 1, whereby said second communication session is established and said second device is connected to said second communication session (par. 176, lines 1-2).

With respect to claim 13, Kannan discloses a method facilitating the transfer of a communication when a first communication session has been established (par. 92, lines 1-2; par. 93, lines 1-2) between said first device (fig. 5A, item 500) and a second device (fig. 5A, item 520), said method comprising the steps of:

causing a list of destinations for a second communication session to be presented at said first device (fig. 6, item 614);

receiving a selection of a selected destination from said list of destinations for said second communication session (par 96, lines 1-3);

causing second communication session information to be obtained for said selected destination (par. 92, lines 1-2); and

causing said second communication session information to be sent to said second device (par. 112, lines 10-11).

With respect to claim 14, Kannan discloses a method in accordance with claim 13, wherein said step of causing second communication information to be obtained comprises causing a transfer address (par. 136, lines 8-9) and an identification code for said second communication session to be obtained for said selected destination (par. 126, lines 4-6).

With respect to claim 15, Kannan discloses a method in accordance with claim 13 and, after said step of receiving a selection, further comprising the steps of:

causing said second communication session to be established using said second communication session information (fig. 8A, items 873 and 874); and

causing said second device to be connected to said second communication session (par. 201, lines 1-2).

With respect to claim 16, Kannan discloses a method in accordance with claim 13 and, after said step of receiving a selection, further comprising the steps of:

causing said second communication session to be established using said second communication session information (fig. 8A, items 873, 874);

causing a third device to be connected to said second communication session (fig. 5A, item 540); and

causing said first communication session information to be sent to said third device (par. 99, lines 1-5).

With respect to claim 17, Kannan discloses a method in accordance with claim 13 and, after said step of receiving a selection, further comprising the steps of:

causing said second communication session to be established using said second communication session information (fig. 8A, items 873, 874);

causing a third device to be connected to said second communication session (fig. 5A, item 540); and

causing said first communication session information to be sent to said third device (par. 99, lines 1-5).

With respect to claim 18, Kannan discloses a method in accordance with claim 13 and, after said step of receiving a selection, further comprising the steps of:

causing said second communication session to be established using said second communication session information (fig. 8A, items 873, 874);

causing said first communication session information to be sent to said third device (par. 99, lines 1-5); and

causing a third device to be connected to said second communication session (fig. 5A, item 540).

With respect to claim 19, Kannan discloses a method in accordance with claim 13 and, after said step of receiving a selection, further comprising causing a request for a second communication session to be established to be sent to said selected destination (fig. 8B, item 881).

With respect to claim 20, Kannan discloses a method in accordance with claim 13 and further comprising causing first communication session information to be created (par. 92, lines 1-2) and, after said step of receiving a selection, further comprising causing said first communication session information to be sent to said selected destination (par. 99, lines 1-5).

With respect to claim 21, Kannan discloses a method in accordance with claim 13 wherein said step of causing second communication session information to be obtained comprises causing a request for a transfer (par. 173, line 1) and identification information to be sent to said selected destination (par. 95, lines 5-6), receiving an address for said second communication session from said destination (par. 136, lines 8-9), and causing said address to be sent to said second device (par. 136, lines 8-9).

With respect to claim 22, Kannan discloses a method in accordance with claim 13 wherein said first communication session has been established by an intermediate device (fig. 6, item 621), and wherein said step of causing second communication session information to be obtained comprises causing a request for a transfer (par. 173, line 1) and identification information to be sent to said selected destination (par. 95, lines 5-6), receiving an authorization code from said destination (par. 87, lines 1-3), sending communication transfer information (par. 126, lines 4-6) and said authorization code to said destination (par. 87, lines 3-5), receiving a communication transfer identification code (par. 126, lines 4-6) and a destination address from said destination (par. 136, lines 8-9), and causing said destination address and a notice to transfer said first communication (par. 136, lines 8-9) to be sent to said intermediate device (fig. 6, items 501 and 621).

With respect to claim 23, Kannan discloses a method in accordance with claim 13 whereby said second communication session is established and said second device is connected to said second communication session (par. 176, lines 1-2).

With respect to claim 24, Kannan discloses a method for facilitating the transfer of a communication when a first communication session has been established between a first device (fig. 5A, item 520) and a second device (fig. 5A, item 540), said method comprising the steps of:

receiving a request to transfer said second device to a second communication session (par. 93, lines 4-6);

causing a warm transfer page to be created for said second communication session (par. 99, line 9; par. 85, lines 5-7; and fig. 6, items 622 and 520);

causing said warm transfer page to be sent to said second device (par. 99, lines 8-11); and

causing a requested connection of said second device to said warm transfer page to be accepted (par. 99, lines 10-11).

With respect to claim 26, Kannan discloses a method in accordance with claim 24 wherein said step of causing said warm transfer page to be created comprises causing said warm transfer page to include a destination address (fig. 6, item 616).

With respect to claim 27, Kannan discloses a method in accordance with claim 24 wherein said step of causing said warm transfer page to be created comprises causing said warm transfer page to include an identification code (par. 126, lines 4-6).

With respect to claim 28, Kannan discloses a method in accordance with claim 24 and, prior to said step of causing said requested connection to be accepted, further comprising the step of causing an application file to be sent to said second device for causing said second device to request said connection (par. 85, lines 1-3).

With respect to claim 29, Kannan discloses a method in accordance with claim 24 and, prior to the step of causing said warm transfer page to be created, further comprising the steps of:

receiving a request for said second communication session (par. 93, lines 1-3);

causing a determination as to whether said second communication session is authorized (par. 173, line 1).

With respect to claim 30, Kannan discloses a method of transferring a communication when a first communication session has been established (par. 92, lines 1-2; and par. 93, lines 1-2) between a first device (5A, item 500) and a second device (fig. 5A, item 520), said method comprising the steps of:

receiving a request to transfer said second device to said second communication session (par. 93, lines 4-6);

causing a second communication session to be created (fig. 8A, items 873, and 874); and

causing a connection of said second device to said second communication session to be accepted (par. 201, lines 1-2).

With respect to claim 31, Kannan discloses a method in accordance with claim 30 and, prior to said step of causing a second communication session to be created, further comprising the steps of:

causing a determination as to whether said request is authorized (par. 173, line 1).

With respect to claim 32, Kannan discloses a method in accordance with claim 30 and, after said step of causing a second communication session to be created, further comprising the steps of:

causing a transfer page for said second communication session to be created (par. 99, line 9; par. 85, line 5-7; fig. 6, items 622 and 520),

causing said transfer page to be sent to said second device (par. 99, lines 8-11),

and wherein said step of causing a connection of said second device to said second transfer communication session to be accepted comprises causing a connection of said second device to said transfer page to be accepted (par. 99, lines 8-11).

With respect to claim 33, Kannan discloses a method in accordance with claim 30 wherein:

prior to said step of causing a second communication session to be created, said method further comprises the steps of:

causing a determination as to whether said request is authorized (par. 173, line 1);

after said step of causing a second communication session to be created, said method further comprises the steps of:

causing a transfer page for said second communication session to be created (par. 99, line 9),

causing said transfer page to be sent to said second device (par. 99, lines 8-11),
and

wherein said step of causing a connection of said second device to said second transfer communication session to be accepted comprises causing a connection of said second device to said transfer page to be accepted (par. 99, lines 8-11).

With respect to claim 34, Kannan discloses a method of operating a destination device (fig. 5A, item 540) to facilitate a communication when a first communication session has been established between a first device (fig. 5A, item 520) and a second

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device (fig. 5A, item 500) using an intermediate device (fig. 6, item 621), said method comprising the steps of:

- receiving first communication session information from said intermediate device (par. 92, lines 1-2; fig. 6, item 621);

- causing a second communication session to be created (par. 93, lines 1-3);

- causing said second device to be connected to said destination device via said second communication session (par. 99, lines 1-5);

- causing said first communication session information to be associated with said second communication session (par. 99, lines 1-5);

- causing said second communication session to be terminated (par. 93, lines 8-9) without disconnecting said second device from said destination device (par. 73, lines 10-12);

- causing said second device and said third device to be connected via said third communication session (par. 143, lines 1-3).

With respect to claim 35, Kannan discloses a method in accordance with claim 34 and, prior to said step of receiving first communication session information, further comprising the steps of:

- receiving a request to transfer said second device to said second communication session from said intermediate device (par. 93, lines 1-2; fig. 6, item 621);

- causing a determination as to whether said request to transfer should be authorized (par. 171, lines 1-2);

receiving a request to connect to said second communication (par. 93, lines 1-2) and a second authorization code from said intermediate device (par. 87, lines 3-5; fig. 6, item 621).

With respect to claim 36, Kannan discloses a method in accordance with claim 34 wherein said step of causing said second device and said third device to be connected via said third communication session comprises causing an instruction to be created which causes said second device to request to be connected to said third communication session (par. 145, lines 1-2), connecting said third device to said third communication session (par. 145, lines 1-2), and connecting said second device to said second communication session (par. 145, lines 5-6).

With respect to claim 37, Kannan discloses a method of operating a destination device to facilitate the transfer of a communication when a first communication session has been established between a first device (fig. 5A, item 520) and a second device (fig. 5A, item 540) via an intermediate device (fig. 5A, item 500), said method comprising the steps of:

receiving first communication session information from said intermediate device (par. 99, lines 1-5);

causing a second communication session to be created (fig. 8A, items 873 and 874);

causing said second device to be connected to said second communication session (par. 201, lines 1-2);

causing said first communication session information to be associated with said

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second communication session (par. 99, lines 1-5).

With respect to claim 38, Kannan discloses a method of operating a second device to facilitate the transfer of a communication when a first communication session has been established between a first device (fig. 5A, item 500) and a second device (fig. 5A, item 520), said method comprising the steps of:

- receiving a destination address (par. 136, lines 8-9) and an identification code (par. 87, line 4);

- causing said destination address to be inserted in an Internet web browser (par. 137, line 1);

- causing a refresh command to be executed for said browser (par. 137, line 1); and
- when said second device is connected to said destination address, causing said identification code to be sent to said destination device (fig. 5A, item 540; par. 137, lines 3-4).

With respect to claim 39, Kannan discloses a method of facilitating the transfer of a communication when a first communication session has been established between a first device (fig. 5A, item 500) and said second device (fig. 5A, item 520), said method comprising the steps of:

- causing a list of destinations to be provided to said first device (fig. 6, item 614);
- receiving a selection of a destination from said first device (par. 96, lines 1-3);
- causing a request for transfer of said first device and first communication session information to be sent to said destination (par. 99, lines 1-5);

causing a list of allowed communication sessions of said destination device (fig. 5A, item 540) to be provided to said first device (fig. 6, item 616);

receiving a selected communication session from said list of allowed communications sessions from said first device (par. 110, lines 1-2);

causing first session communication information to be provided to said destination (par. 99, lines 1-5);

causing a second communication session to be created at said destination (fig. 8B, item 881); and

causing said second device to be connected to said second communication session via said destination (par. 176, lines 1-2).

With respect to claim 40, Kannan discloses a method of facilitating the transfer of a communication when a first communication session has been established between a first device (fig. 5A, item 500) and said second device (fig. 5A, item 520), said method comprising the steps of:

receiving a request to transfer said second device to a second communication session (par. 96, lines 1-3);

causing said second communication session to be established (fig. 8A, items 873 and 874) and said second device to be connected to said second communication session (par. 139, line 1).

With respect to claim 41, Kannan discloses a method in accordance with claim 40 wherein said step of causing said second device to be connected to said second communication session comprises:

causing a destination address for said second communication session to be determined (par. 136, lines 8-9); and

causing said second device to be directed to said destination address (par. 137, line 1).

With respect to claim 42, Kannan discloses a method in accordance with claim 40 wherein said step of causing said second device to be connected to said second communication session comprises the steps of:

causing a destination address for said second communication session to be determined (par. 136, lines 8-9); and

causing an Internet browser program of said second device to be updated with said destination address (par. 137, line 1).

With respect to claim 43, Kannan discloses a method in accordance with claim 40 wherein said step of causing said second device to be connected to said second communication session comprises the steps of:

causing a destination address for said second communication session to be determined (par. 136, lines 8-9);

causing a destination address and an identification code for said second communications session to be sent to said second device (par. 87, line 4); and

causing a log-in of said second device at said destination address using said identification code (par. 137, lines 3-4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kannan in view of Judson.

Kannan discloses the method in accordance with claim 24, however Kannan does not disclose expressly that said step of causing said warm transfer page to be created comprised causing said warm transfer page to include an embedded refresh.

Judson discloses that it is known that web pages include embedded refresh or reload functions (fig. 4).

Kannan and Judson are analogous art because they are both from the same field of endeavor of computer networks.

At the time of invention, it would have been obvious to one of ordinary skill in the art to provide Kannan's warm transfer page with an embedded refresh function, as taught by Judson.

The motivation for doing so would have been to allow Kannan's warm transfer page to have the option of being updated if any changes to the data occur.

Therefore, it would have been obvious to combine Judson with Kannan for the benefit of data update capability to obtain the invention as specified in claim 25.

Conclusion


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrea Hollar whose telephone number is (571) 272-5862. The examiner can normally be reached on 8:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Harvey can be reached on (571) 272-3896. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ABH


JACK D. HARVEY
SUPERVISORY PATENT EXAMINER